

What is claimed is:

1 1. A document processing method, comprising the
2 steps of:

3 acquiring display capability information and
4 preference information of a display of a mobile
5 communication device, and a document including
6 a plurality of questions; and
7 determining the style in which the document is
8 displayed on the display of the mobile
9 communication device based on the display
10 capability information, the preference
11 information, and features of the document.

1 2. The method as claimed in claim 1, wherein the
2 document contains inter-question dependence information,
3 analyzable by a program.

1 3. The method as claimed in claim 2, wherein the
2 document conforms to the extensible markup language
3 (XML).

1 4. The method as claimed in claim 2, wherein the
2 questions correspond to question indexes, and the
3 dependence information contains the correspondence of a
4 question index of a question and an alternative of
5 another question, further comprising the steps of:

6 distinguishing the alternative; and

7 displaying the question corresponding to the
8 alternative based on the alternative and the dependence
9 information.

1 5. The method as claimed in claim 2, further
2 comprising the step of:

3 displaying the document using the extensible
4 stylesheet language (XSL).

1 6. The method as claimed in claim 1, wherein the
2 preference information is acquired using techniques of
3 composite capability/preference profile in the acquiring
4 step.

1 7. The method as claimed in claim 1, wherein the
2 display capability information includes at least one of
3 display capability information of the display or
4 application for displaying the document, and the display
5 capability information of the display includes at least
6 size or resolution information of the display.

1 8. The method as claimed in claim 1, wherein the
2 preference information includes at least one of font
3 size, font type or font color.

1 9. The method as claimed in claim 1, wherein the
2 features of the document includes at least the total
3 number of questions and character numbers of a question.

1 10. A machine-readable storage medium storing a
2 computer program which, when executed, directs a computer

3 to perform a document processing method, comprising the
4 steps of:

5 receiving display capability information and
6 preference information related to a display of
7 a mobile communication device, and a document
8 including a plurality of questions; and
9 determining the display style in which the document
10 is shown on the display of the mobile
11 communication device based on the display
12 capability information, the preference
13 information, and features of the document.

1 11. The storage medium as claimed in claim 10,
2 wherein the document contains dependence information of
3 the questions, which is analyzable by the computer
4 program.

1 12. The storage medium as claimed in claim 11,
2 wherein the document conforms to the extensible markup
3 language (XML).

1 13. The storage medium as claimed in claim 11,
2 wherein each of the questions correspond to a question
3 index, and the dependence information contains the
4 correspondence of a question index of a question and an
5 alternative of another question, and the document
6 processing method further comprises the steps of:

7 distinguishing the alternative; and

8 displaying the question corresponding to the
9 alternative based on the alternative and the dependence
10 information.

1 14. The storage medium as claimed in claim 11,
2 wherein the document processing method further comprises
3 the step of:

4 displaying the document using extensible the
5 stylesheet language (XSL).

1 15. The storage medium as claimed in claim 10,
2 wherein the preference information is received using
3 techniques of composite capability/preference profile in
4 the receiving step.

1 16. The storage medium as claimed in claim 10,
2 wherein the display capability information includes at
3 least display capability information of the display or
4 application for displaying the document, and the display
5 capability information of the display includes at least
6 size or resolution information of the display.

1 17. The storage medium as claimed in claim 10,
2 wherein the preference information includes at least one
3 of font size, font type, or font color.

1 18. The storage medium as claimed in claim 10,
2 wherein the features of the document includes at least
3 the total number of questions and character number of a
4 question.